B.B.M.P

BRUHAT BENGALURU MAHANAGARA PALIKE

YELAHANKA ZONE

DIVISION: BYATARAYANAPURA

SUB DIVISION: VIDYARANYAPURA

Name of Work: Estimate for Improvements to Roads and Drains at Singapura Garden and Surrounding areas in Ward No. 15 (Kuvempunagara).

Estimated Cost Rs. 30.00 Lakhs

BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

NAME OF WORK:- Improvements to Roads and Drains at Singapura Garden and Surrounding areas in Ward No. 15 (Kuvempunagara).

Estimation Cost.Rs 3000000.00

Sl No	Description of work	Unit	Mesurement				Qty.	Rate	Amount
			No.	L	B	D			
1	Earth work Excavation by manual means for drains.canals, waste weir, draft, approach channels, key trenches, foundation of bridges and such simillar works in all kinds of soils , as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly dressed disposing off the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of labour, tools & other appurtenaces required to complete the work. **(PWD SR 2021-22 Vol -I Pg No 5 item no 1.4.1)**	Cum							
	New Drain								
	3rd Cross Singapura Garden		2	143.00	1.00	1.00	286.00		
	Culverts								
			4	6.00	1.50	1.20	43.20		
	Basic rate	186.00							
	Area weightage 10%	18.60							
	Sub Total	204.60							
	Total						**329.20**	204.60	**67354.00**
2	Providing and laying in position Plain Cement Concrete Mix 1:3:6 (M10) for levelling course for all works in foundation. Using 40 mm nominal size graded crushed coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. **(PWD SR 2021-22 Vol -I Pg 15 item no 2.1.3)**	Cum							
	New Drain								
	3rd Cross Singapura Garden		2	143.00	1.00	0.15	42.90		
	Culverts								
			4	6.00	1.40	0.15	5.04		
	Issued Rate 07-07-2022 Basic rate	5554.00							
	Area weightage 10%	555.40							
	Sub Total	6109.40							

Sl No	Description of work	Unit	Mesurement				Qty.	Rate	Amount
			No.	L	B	D			
	Total						**47.94**	6109.40	**292885.00**
3	Providing and laying in position Reinforced cement concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. M20 (The cost of steel reinforcement & formwork to be paid separately) **(PWD SR 2021-22 Vol -I Pg 17 item no 2.4.2))**	Cum							
	New Drain								
	Raft								
	3rd Cross Singapura Garden		2	143.00	0.90	0.15	38.61		
	Side Wall								
	Ganesh Layout Main Road		2x2	143.00	0.15	0.60	51.48		
	Culvert								
	Raft								
			4	6.00	1.30	0.20	6.24		
	Side Wall								
			2x4	6.00	0.30	0.60	8.64		
	Issued Rate 07-07-2022 Basic rate	5968.00							
	Add 5% for Shuttering	298.40							
		6266.40							
	Area weightage 10%	626.64							
	Sub Total	**6893.04**							
	Total						**104.97**	6893.04	**723562.00**
4	Supplying, Fitting and Placing un-coated TMT bar Reinforcement in sub-structure complete as per Drawing and Technical Specifications. MORTH Specification NO.1600&2200 **(PWD SR 2021-22 Vol -**								
	For Drain	Cum					90.09		
		kg	Steel assumed 60Kg/Cum of Concrete				0.06		
		tonne					**5.41**		
	For Culverts	Cum					14.88		
		kg	Steel assumed 80Kg/Cum of Concrete				0.08		
		tonne					**1.19**		

Sl No	Description of work	Unit	Mesurement				Qty.	Rate	Amount
			No.	L	B	D			
	Issued Rate 07-07-2022 Basic rate	92170.00							
	Area weightage 10%	9217.00							
	Sub Total	**101387.00**							
	Total						**6.60**	101387.00	**668728.00**
5	Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite / trap / basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately **Mix 1:3:6 (M10) Using 20 mm nominal size graded crushed coarse aggregate (PWD SR 2021-22 Vol - I Pg 15 item no 2.1.4))**	Cum							
	Culvert Ramp								
			2x4	6.00	1.00	0.15	7.20		
	Issued Rate 07-07-2022 Basic rate	5728.00							
	Area weightage 10%	572.80							
	Sub Total	6300.80							
	Total						**7.20**	6300.80	**45366.00**
5	Providing and Fixing pre cast Covering Slab made out of CC 1:2:4 with **100 mm** thick and Finishing cutting, including form work,curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc, complete. (**Approved Data Rate**)	Sqm							
	Covering Slab								
	3rd Cross Singapura Garden		2	141.00	0.90		253.80		
	Data rate	2072.00							
	Total						**253.80**	2072.00	**525874.00**
6	Providing and Fixing pre cast Covering Slab made out of CC 1:2:4 with **230 mm** thick and Finishing cutting, including form work,curing, including cost of all materials, labour, hire charges of machinery, loading, unloading, lead and lift, transportation etc, complete. (**Approved Data Rate**)	Sqm							
	Culvert Slab								
	3rd Cross Singapura Garden		4	6.00	1.20		28.80		
	Data rate	5037.00							
	Total						**28.80**	5037.00	**145066.00**

Sl No	Description of work	Unit	Mesurement				Qty.	Rate	Amount
			No.	L	B	D			
7	L ding and Unloading of Stone Boulder / Stone aggregates / Sand / Kankar / Moorum. (Tipper 14 m3) **(PWD SR 2021-22 Vol-III Page No.3, Item No.1.1C)**	Cum							
	Qty Vide 90% of Item No- (1)						319.32		
	Total						**319.32**	81.40	**25993.00**
	Basic rate	74.00							
	Area Weightage 10%	7.40							
	Total	81.40							
8	Cost of Haulage Excluding Loading and Unloading Taking output 18 t load and lead 10 km = 180 t.km **(PWD SR 2021-22 Vol-III Page No.3, Item No.1.4B)**	T.Km							
	Qty frm Item No-06			319.32	1.28		408.73		
	Total						**408.73**	115.50	**47208.00**
	15Km 7*15	105.00							
	Area Weightage 10%	10.50							
	Total	115.50							
								Grand Total	**2542036.00**
								GST Charges (18% of Executed cost)	**457566.00**
								Miscellenious and rounding off	**398.00**
								Total Amount	**3000000.00**
	Rupees Thirty Lakh(s) Only								

CERTIFICATE:

1) The work spot has been inspected and found to be necessary.
2) The work spot comes under B.B.M.P Limits.
3) The provisions made in the estimate are necessary and minimum.
4) The estimate is based on C.S.R of PWD 2021-22, Issue rates and Data Rates.

Assistant Engineer
Ward No. 15, Kuvempunagara

Assistant Executive Engineer
Vidyaranyapura Sub Division

Assistant Executive Engineer
Vidyaranyapura Sub Division
B.B.M.P, Bangalore - 97

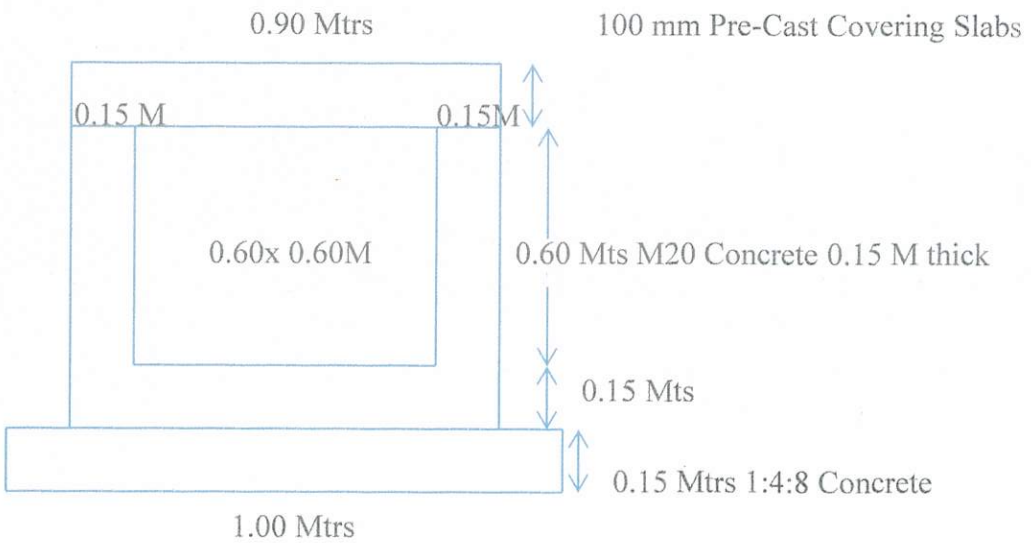
Executive Engineer
Byatarayanapura Division

Administrative Approval
Accorded For Rs.30.00Lakhs
Head of A/C P3726
CER NO :158 Dt:16/9/22

TA CE (YNK)

Technical Sanction
Accorded For Rs.30.00Lakhs
Head of A/C P3726
CER NO :158 Dt:16/09/2022

TA CE

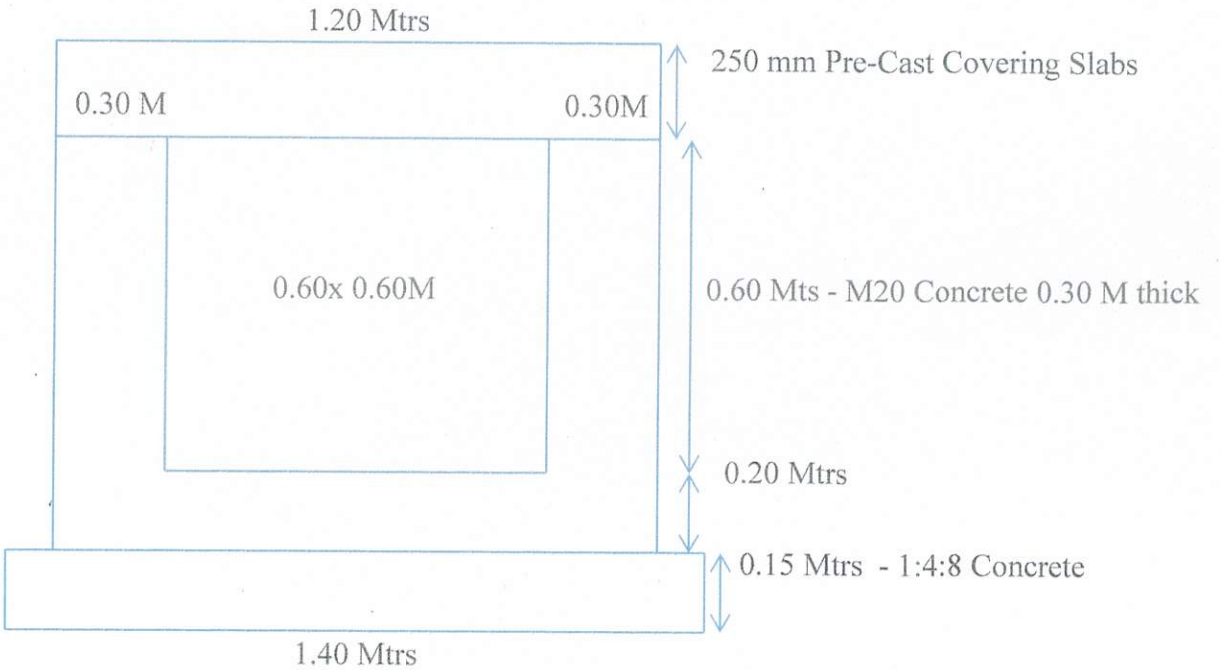


CROSS SECTION OF RCC DRAIN

Assistant Engineer

Assistant Executive Engineer

Assistant Executive Engineer
Vidyaranyapura Sub Division
B.B.M.P, Bangalore - 97

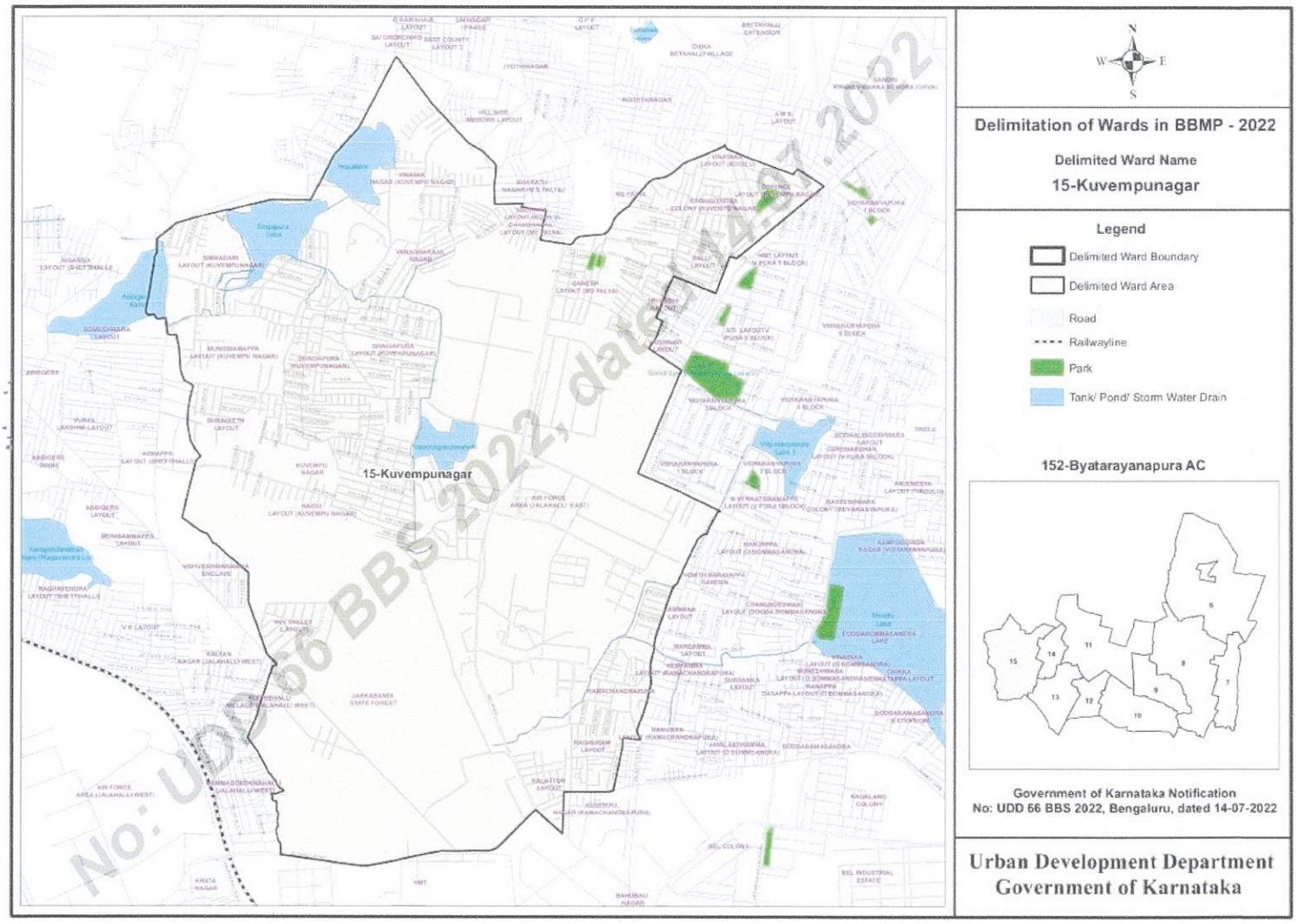


TIPICAL CROSS SECTION OF RCC CULVERT

Assistant Engineer

Assistant Executive Engineer

Assistant Executive Engineer
Vidyaranyapura Sub Division
B.B.M.P, Bangalore - 97



No: UDD 66 BBS 2022, dated 14.07.2022

Assistant Executive Engineer
Vidyaranyapura Sub Division
B.B.M.P, Bangalore - 97